



**12DZ6**

# REMOTE-CUTOFF PENTODE

7-PIN MINIATURE TYPE

*For use in automobile radio receivers operating directly from 6-cell storage-battery systems*

12DZ6

## GENERAL DATA

### Electrical:

Heater, for Unipotential Cathode:

Voltage range (DC). . . . . 10 to 15.9 volts

*For longest life, it is recommended that the heater be operated within the voltage range of 11 to 14 volts.*

Current (Approx.) at 12.6 volts . . . . 0.19 amp

Direct Interelectrode Capacitances:<sup>o</sup>

Grid No.1 to plate. . . . . 0.05 max.  $\mu\mu\text{f}$

Grid No.1 to cathode, grid No.3 & internal shield, grid No.2, and heater. 9.5  $\mu\mu\text{f}$

Plate to cathode, grid No.3 & internal shield, grid No.2, and heater . . . . 4  $\mu\mu\text{f}$

### Characteristics, Class A<sub>1</sub> Amplifier:

Heater Voltage. . . . . 12.6 volts

Plate Voltage . . . . . 12.6 volts

Grid No.3 and Internal Shield. *Connected to cathode at socket*

Grid-No.2 Voltage . . . . . 12.6 volts

Grid-No.1 Supply Voltage. . . . . 0 volts

Grid-No.1 Resistor (Bypassed) . . . . . 10 megohms

Grid-No.3 Resistor (Bypassed) . . . . . 10 megohms

Plate Resistance (Approx.). . . . . 25000 ohms

Transconductance. . . . . 3800  $\mu\text{mhos}$

Plate Current . . . . . 4.5 ma

Grid-No.2 Current . . . . . 2.2 ma

Grids No.1 and No.3 Supply Voltage (Approx.) for transconductance, grid No.1 to plate ( $\mu\text{mhos}$ ) = 10. . . . . -10 volts

### Mechanical:

Operating Position. . . . . Any

Maximum Overall Length. . . . . 2-1/8"

Maximum Seated Length . . . . . 1-7/8"

Length, Base Seat to Bulb Top (Excluding tip) 1-1/2"  $\pm$  3/32"

Diameter. . . . . 0.650" to 0.750"

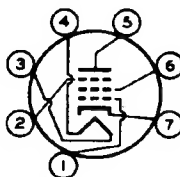
Dimensional Outline . . . . . *See General Section*

Bulb. . . . . T5-1/2

Base. . . . . Small-Button Miniature 7-Pin (JEDEC No.E7-1)

Basing Designation for BOTTOM VIEW. . . . . 7BK

Pin 1-Grid No.1  
Pin 2-Grid No.3,  
Internal  
Shield  
Pin 3-Heater



Pin 4-Heater  
Pin 5-Plate  
Pin 6-Grid No.2  
Pin 7-Cathode

<sup>o</sup> Without external shield.

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### AMPLIFIER — Class A<sub>1</sub>

#### Maximum Ratings, Design-Maximum Values:

PLATE VOLTAGE. . . . . 16 max. volts

GRID No.3 (SUPPRESSOR GRID). . . *Connect to cathode at socket*

GRID-No.2 (SCREEN-GRID) VOLTAGE. . . . . 16 max. volts

GRID-No.1 (CONTROL-GRID) VOLTAGE:

Positive-bias value. . . . . 0 max. volts

PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode. . 16 max. volts

Heater positive with respect to cathode. . 16 max. volts

#### Maximum Circuit Values:

Grid-No.1-Circuit Resistance . . . . . 10 max. megohms

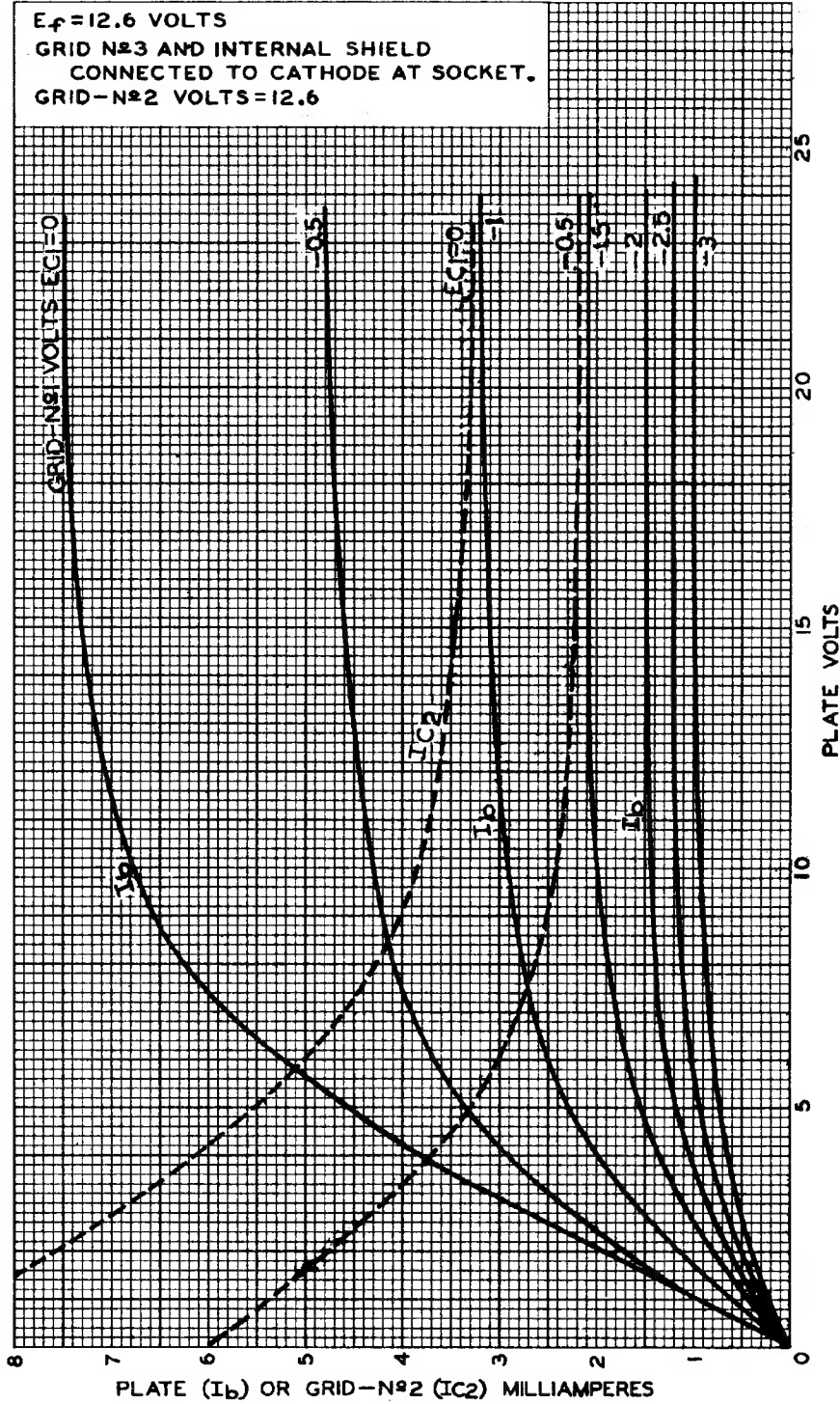
Grid-No.3-Circuit Resistance . . . . . 10 max. megohms



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### AVERAGE CHARACTERISTICS



ELECTRON TUBE DIVISION  
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-10399

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# AVERAGE CHARACTERISTICS

